

Pipeline and

Administration

Hazardous Materials Safety

NOV 3 0 2005

400 Seventh Street, S.W. Washington, D.C. 20590

Mr. Rick Foote Sr. Environmental Compliance Advisor Triumvirate Environmental 61 Inner Belt Road Somerville, MA 02143

Ref. No. 05-0240

Dear Mr. Foote:

This responds to your September 19, 2005 letter requesting clarification on the classification of rubidium (Rb-87) as a radioactive material under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). Specifically, you ask for confirmation that your material, rubidium (Rb-87), is not a hazardous material based on the definition and on activity limits in §§ 173.433 and 173.436.

According to your letter, your material (Rb-87) is contained within an article, specifically within a small envelope that is part of a measuring device used in GPS system. The activity of the Rb-87 is less than 1.7×10 (negative) 4^{th} micro curies (approximately 6.29 becquerels).

Your understanding is correct. The item will not be a Class 7 hazardous material if the total activity of Rb-87 in a consignment is less than 10 million becquerels. In almost all cases, this item will not be a Class 7 hazardous material. It could become a Class 7 hazardous material only if a single consignment were to contain over 1,590,000 of these items, and the activity concentration exceeds 10,000 becquerels per gram.

I hope this answers your inquiry.

Sincerely

John A. Gale

Chief, Standards Development

Office of Hazardous Materials Standards

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173.433

\$ 173.433 \$ 173.436 RAM Exceptions 05-0246 March 1, 2005

Mr. Edward T. Mazzullo Director, Office of Hazardous Materials Standards U.S. DOT/PHMSA (DHM-10) 400 7th Street S.W. Washington, D.C. 20590-0001

RE: Hazardous Materials Regulation Clarification

Dear Sir:

My client ships a small amount of Rb-87 contained within an article. The rubidium is contained within a small "envelope" that is part of a measuring device used in GPS systems. The activity level from the RB-87 has an activity level of less then 1.7 x 10(negative) 4th micro curies. In order for a material to be considered radioactive first it must meet the definition of a radioactive material. The regulations define a radioactive as the following: "Radioactive material means any material containing radionuclides where both the activity concentration and the total activity in the consignment exceed the values specified in the table in § 173.436 or values derived according to the instructions in § 173.433."

We feel that this amount and activity level for the Rb-87 is exempt from the regulations because the material has an activity rating of equal to or less then 1.0 X 10 -4 as per the table found in 49 CFR 173.436. Therefore, we feel that this material is not considered a hazardous material per DOT Hazardous Materials regulations. We are looking for a written confirmation of this information. Thank you

Rick Foote

Sr. Environmental Compliance Advisor